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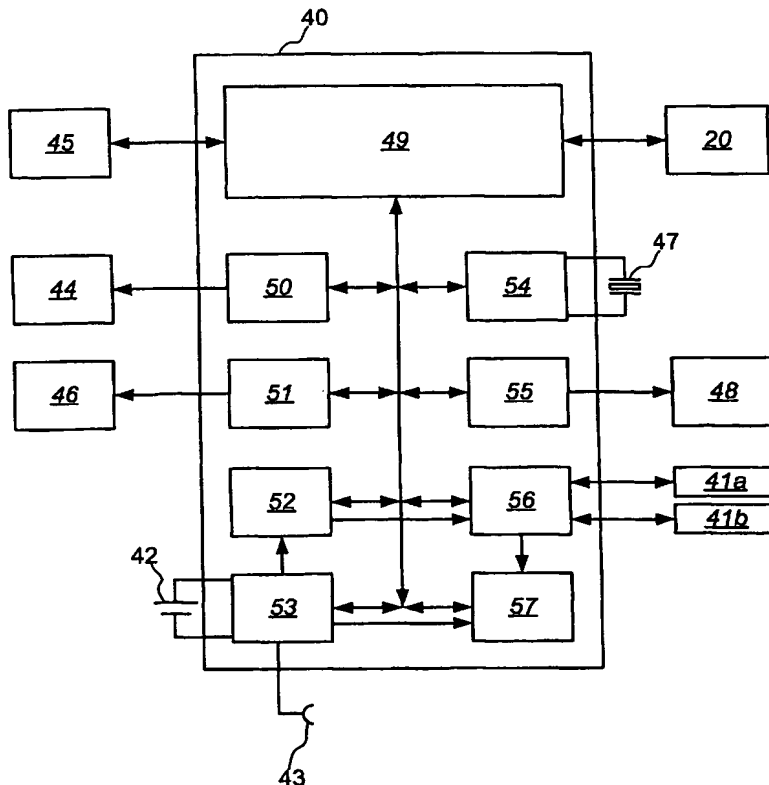
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(54) Title: POWER MANAGEMENT UNIT FOR PORTABLE ELECTRONIC EQUIPMENT



(57) Abstract: A power management unit (40) for a portable electronic apparatus is disclosed. The apparatus is powered by at least a battery (42), and the power management unit is implemented as an integrated circuit. The power management unit (40) may comprise a general purpose analog-to-digital converter block (57) comprising a first switch for selecting one of at least two analog input signals, and an analog-to-digital converter which is arranged to convert said selected analog input signal into a digital signal; an analog event generator block (52), which is arranged to provide an indication for controlling an operating state of said power management unit when an analog input signal assumes a predetermined relation to a predetermined reference value; a timer block (54), which is operable for providing a timing signal independently of which one of a plurality of operating states the power management unit is operable in; and/or a battery charge control block (53), which is capable of controlling a battery charge current based on an estimated charge power. Also disclosed is an electronic pen comprising the power management unit.



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LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

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## B. FIELDS SEARCHED

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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6348744 A (CHRIS LEVESQUE), 19 February 2002 (19.02.2002), column 2, line 48 - column 4, line 18 --	1-29
Y	US 6259232 A (JAMES M. DOUGLASS ET AL), 10 July 2001 (10.07.2001), column 1, line 16 - line 59; column 2, line 45 - column 3, line 44 --	1-29
A	US 2001024193 A (CHRISTER FAHRAEUS), 27 Sept 2001 (27.09.2001), see whole document --	27

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

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## INTERNATIONAL SEARCH REPORT

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5151644 A (RONALD W. PEARSON ET AL), 29 Sept 1992 (29.09.1992), column 4, line 8 - line 20; column 6, line 54 - column 7, line 11  -- -----	1-29

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

27/02/2004

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US	6348744	A	19/02/2002	EP WO	1072079 A,B 9953595 A	31/01/2001 21/10/1999
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US	5151644	A	29/09/1992	NONE		